### Approved For Release 2001/07/30: CIA-RDPN8B04747AQ00500010044-5

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DRAFT 15 Jul 64

### I. Identification

The Plans and Development Staff proposes the modification of the

3x to 12x Magnification Precision Enlarger Model No. PD 1304. This project will cost and is included in the FY-65 Class 700 Detail

Sheet under Category IV - Reproduction and Processing Equipment, Improving

Design of Existing Printing and Processing Equipment. An add translation of the allotted for installation and collibration of the anlarger

II. Objectives

The proposed modifications will improve the operation of the enlarger both mechanically and electrically, and in addition facilitate its use under darkroom conditions. Certain original design features will have

to be changed and record to made for solution of existing problems.

# Declass Review by NIMA / DoD

#### III. Background

The mechanical operation of this instrument has been very difficult due to poor design. Electrical components have been trouble some and viewing the projected image on the easel was almost impossible. There is one major recommendation for this instrument and thatis its capability to reproduce on-axis enlargements at 3x to 12x magnification. It serves to fill the gap between the capabilities of the VG-1 Enlarger application to 10-20-40x Precision Enlarger. The 3x to 12x Enlarger will provide an interim capability for approximately one year at which time it can be replaced with a much more precise, on-axis enlarger now under

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### Technical Specifications

Requirements covering the extent of the mechanical and electrical/ electronic modifications are as follows:

- Redesign of the film transport mechanism
- b) Redesign glass supports for access during cleaning
- c) Provide a condensor and 45° mirror sliding support
- d) Provide hinged outrigger supports and locks for film spools
- e) Add a simple footage counter for determining x and y frame positi ns
- Provide a rotating filter holder under the lens
- g) Increase the capacity of electrical/electronic components
- h) Replace film drive motors with stronger ones
- i) Repaint easel surface a flat white with blue limiting tick marks for paper and film registration
- Increase vacuum hold-down by providing larger vacuum pump.

# V. Contractor and Financial Arrangements

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problems associated with this instrument. Because of the limited time available for the necessary modifications, it was decided that this company would complete the proposed modifications in the least time. No other source has been considered. The modifications required should be completed in approximately sixty days; therefore, since no research is required, the contract should be made on a fixed-price basis.

manufactured the enlarger and is intimately familiar with the

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all of the modifications, a cost of is proposed. The installation is based on the working and calibration charge of days (24 hours) which totals un additional t Tilal cost of the contract should be approximately 25X1A 25X1A

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